

CYBERCAMP INSTRUCTIONAL ACTIVITY SCHEDULE

School Division(s): Petersburg Public Schools School: Petersburg High School

Camp Begin Date: July 11, 2016 Camp End Date: July 28, 2016 Days of Week: Monday – Thursday

Daily Instruction Begin Time: 7:30 a.m. Daily Instruction End Time: 1:30 p.m. Specify alternate schedules below

Lunch Period (begin/end): 11:30 – 12:00 Total instructional hours including guest speaker(s) field trip(s) and culminating

Enrollment 25 activity: 72 hours

WEEK 1 – July 11 – 14, 2016

Monday	Tuesday	Wednesday	Thursday	Friday
<p>Welcome students to the Cyber Camp Introduction of Staff Members and their duties and responsibilities</p> <p>Overview of the anticipated outcomes of the Cyber Camp Experience</p> <p>Curriculum to be covered during the three week session</p> <p>Begin Daily Instruction with STEM EDA</p> <p>Electricity :</p> <ul style="list-style-type: none"> a. Introduction to electricity <ul style="list-style-type: none"> 1. Make a circuit a. How batteries work <ul style="list-style-type: none"> 1. Make a wet cell battery 	<p>Review of Previous Day's Activities</p> <p>Liberal Arts</p> <p>Introduction to Humanities and Cyber</p> <ul style="list-style-type: none"> a. Students will be introduced to the connections between physical person and the domain of cyber space b. Digital Technology, Friendships and Personal Relationships c. Examine the impact of technology on friendships and relationships <p>Robotics</p> <p>Hello World</p>	<p>8:30 – 10:30 Speaker will present a video and interactive presentation for the students</p> <p>Guest Speaker : TBD Dominion Power</p> <ul style="list-style-type: none"> 1. Preventing Cyber attacks from leading to City-wide or Area Blackouts <p>Liberal Arts</p> <ul style="list-style-type: none"> f. Current Events <ul style="list-style-type: none"> 1. Research cyber-security events and prepare a briefing on an event (example: Hacking of Facebook Accounts) 	<p>Field Trip to Altria – Phillip Morris in Richmond, Virginia</p> <p>Departure from Petersburg High School at 8:30 a.m. Arrive at Altria at 9:00 a.m. Return to Petersburg High School at 12:30 p.m. (make preparation for student lunches)</p> <p>Students will be introduced to the various types of security measures in place from the entrance of employees to the work site through the daily monitoring of the use of technology in the workplace.</p>	

2. Design a flashlight	<div>d. Interact with the Boe-Bot to learn introductory coding and keywords</div> <div>e. Reveal to students the pre-assembled Boe-Bot and the expectations for the function of the Boe-Bot as they proceed through the Cyber Camp</div>	<div>2. Robotics</div> <div>g. ASCII and Timers</div> <div>1. Use the Boe-Bot to practice with variables and timing statements</div> <div>h. Timers and LEDs</div> <div>1. Construct an LED circuit on the Boe-Bot for visual connection to processing speed</div>		
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WEEK 2 – July 18-21, 2016				
Monday	Tuesday	Wednesday	Thursday	Friday
<p>i. Digital Technology and Privacy</p> <ol style="list-style-type: none"> 1. Evaluate the nature and value of privacy as they understand the impact of technology on their privacy. <p>Liberal Arts</p> <p>j. Networks</p> <ol style="list-style-type: none"> 1. Discuss Network terms and definitions 2. Identify sample layouts of networks 3. Students will construct live “human” network in the classroom using ropes (network connections) and envelopes (data) and observe how information travels from device to device. 	<p>Robotics</p> <p>k. Malware</p> <ol style="list-style-type: none"> 1. Discuss malicious intent and explore the variety of malware to which cyber citizens may be exposed. <p>l. Turning Maneuvers</p> <ol style="list-style-type: none"> 1. Work through the Programming Design to refine movements with the Boe-Bot <p>m. Digital Technology, Harms, and Trust</p> <ol style="list-style-type: none"> 1. Discuss the intellectual and emotional traits that can be cultivated through the use of technology and consider how to revise their personal use of technology to enhance those traits. 	<p>Cyber Ethics</p> <p>n. Begin an assignment of developing an overall ethical judgement on the benefits and costs of digital technology for theirs and future generations</p> <p>10:00 a.m. 11:30 a.m. Guest Speaker: Ms. Brenda Spell - Risk Management Supervisor at Defense Supply Center, Richmond, Virginia</p> <p>Continue to developing an overall ethical judgement on the benefits and costs of digital technology for theirs and future generations</p>	<p>Full Day Activity</p> <p>Field Trip – Fort Lee Students will have an opportunity to interact with engineers through Closed-Circuit Monitors, observe satellites and their function in detecting attempts to interrupt or observe information processing taking place in other countries.</p>	

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WEEK 1 – July 25 – 28, 2016				
Monday	Tuesday	Wednesday	Thursday	Friday
a. Debates <ol style="list-style-type: none"> Assign students to groups and topics Allow Time to research Hold structured debates in class that discuss relevant cyber-security headlines such as “placing chips in human beings that contain all their medical information”. b. Infrared Navigation I and Infrared Navigation II	<ol style="list-style-type: none"> Construct a pair of infrared navigation circuits and use it to safely navigate the Boe-Bot around obstacles IR Programmable Remote	Guidance Counselor Career Planning Presentation Virginia Education Wizard, Online career planning tool, etc. Boe-Bot Completion	Finalizing of any instructional components Cyber Camp Closing Ceremonies 10:00 a.m. Guest Speaker: TBD Presentation of Awards and Recognitions for All Camp Participants Reception for Parents, Students and Special Guests	